



TotalView®

Installation Guide

Copyright © 2010-2013 by Rogue Wave Software, Inc. All rights reserved.

Copyright © 2007-2009 by TotalView Technologies, LLC

Copyright © 1998–2007 by Etnus LLC. All rights reserved.

Copyright © 1996–1998 by Dolphin Interconnect Solutions, Inc.

Copyright © 1993–1996 by BBN Systems and Technologies, a division of BBN Corporation.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of Rogue Wave Software, Inc. ("Rogue Wave").

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Rogue Wave has prepared this manual for the exclusive use of its customers, personnel, and licensees. The information in this manual is subject to change without notice, and should not be construed as a commitment by Rogue Wave. Rogue Wave assumes no responsibility for any errors that appear in this document.

TotalView and TotalView Technologies are registered trademarks of Rogue Wave Software, Inc. TVD is a trademark of Rogue Wave.

Rogue Wave uses a modified version of the Microline widget library. Under the terms of its license, you are entitled to use these modifications. The source code is available at:

http://www.roguewave.com/support/knowledge-base.aspx.

All other brand names are the trademarks of their respective holders.

Contents

1 Installing TotalView Using tar Files 1

Step 1: Unbundling Downloaded Files 2
Step 2: Running the Install Program 2
Step 3: Installing a Demo License 4
Setting the License File Variable 4
Step 4: Configuring Your Environment 5
Cray XT Installation 5
Installing 5
About the Install 6

2 Installing or Changing a Regular License 7

Planning for a Regular License 8
Choosing a License Server 8
Finding a License Server Host ID 8
Creating a FLEXIm User Account 9
Installing your Permanent License 9
Accessing a License Server 9
Starting the License Manager Manually 10
Stopping the License Manager 10
Testing the License Manager 10
Starting the License Manager When the System Boots 11
Choosing a Standalone FLEXIm Version 12
Starting the Install Program 12
More FLEXIm Information 13

3 Installing License Keys 15

Step 1: Locating the FLEXIm License Server Directory 16
Step 2: Deleting Older License Keys 17
Step 3: Adding New License Keys 18
Step 4: Starting and Stopping the License Server 20
Step 5: Configuring TotalView to Use the License Server 21
Reporting Problems with License Installation 22

- 4 Installing TotalView Individual 23
- 5 Uninstalling TotalView 25

The Three-Step Removal Process 25

Index 27

iv Contents

Installing TotalView Using tar Files

This document provides information about installing the TotalView® Debugger Team and TotalView® Team Enterprise using tar files.

The TotalView tar bundle includes the code for both TotalView and MemoryScape. At the end of installation you will have both products installed on your system. If you have purchased both products, when you complete the license procedure both products will be activated. If you purchased only TotalView, only TotalView will be activated.

If you are using the installer, you'll find a link to a replacement for this chapter at http://www.roguewave.com/support/product-documentation/totalview.aspx.

Please contact us if you have problems installing TotalView, questions that are not answered in the product documentation or on our Web site, or suggestions for new features or improvements.

tvsupport@roguewave.com 1-800-856-3766 in the United States (+1) 508-652-7700 worldwide

Step I: Unbundling Downloaded Files

Use the **tar** command to extract the TotalView files contained within the installation tar file. These files are either downloaded from our web site or obtained from a CD-ROM. For example:

```
tar xvf totalview-version-platform.tar
tar xvf totalview-version-doc.tar
```

Step 2: Running the Install Program

Before you can run TotalView, you must obtain a licence. You can obtain one by filling in the form located at http://www.roguewave.com/request-demo.aspx.

This section describes how you install a new version of TotalView. Before starting, you should read the Release Notes on our web site. In addition, some operating systems may need to be patched. For more information, see the TotalView Platforms and System Requirements guide.

Here is the procedure for installing TotalView:

1 (Optional) Go to the system upon which you will be installing TotalView and become the root user:

```
su root
```

In some circumstances (particularly on a Macintosh), you'll want to use the **sudo** command instead of **su**. If you use the **sudo** command, you'll be typing **sudo** ./Install instead of ./Install in step 2.

Installing TotalView as the **root** user prevents users from modifying the software. However, you should not run TotalView as **root**.

2 Go to the directory containing the files extracted from the downloaded tar file and then start the **Install** program by typing:

```
./Install
```

For information on using this command, type ./Install -help. If you use any of the options described in this displayed information, the installation procedure is no longer interactive.

- **3** The **Install** program asks you to accept the license terms for TotalView. You can respond **Yes** to accept, **No** to decline, or **?** to view the license terms. You must accept the license terms to continue the installation.
- **4** The **Install** program asks that you name an installation directory. If the directory you specify does not exist, the program requests a new location, effectively meaning the directory you specify must already exist.

If you do not enter a name, the installation directory will either be /usr/toolworks or /opt/toolworks—this is system-dependent. Type a period "." to place TotalView in your current directory.

This manual refers to the installation directory's pathname as installdir.

The **Install** program then creates a **toolworks** directory and places two subdirectories within it:

- ▶ totalview.version. This is where Install places TotalView.
- flexim-version: This is where Install places the license manager.

If you are installing TotalView on a Cray XT system, you should go to Step 7 on Page 3. For more information about your Cray installation, see "Cray XT Installation" on page 5.

- **5** You are now asked to select which components you wish to install. If you are installing TotalView for multiple platforms in a common NFS directory, you only need to install the common components once.
- **6** The **Install** program asks if it should create a symbolic link (named **totalview**) to this installation directory.
 - If you are not the root user, **Install** cannot create the link, so you should answer "n" (no). If **Install** cannot create the link, you can ignore its complaints and continue installing TotalView by pressing Enter.
- 7 If you became root using **su**, exit from root after **Install** concludes by typing: exit
- **8** Test if TotalView was successfully installed by typing: installdir/toolworks/totalview.version/bin/totalview

TotalView prints information that includes a version number and a message indicating that a license file is not installed.

If TotalView cannot initialize the license manager, it prints the following message:

Unable to initialize TotalView license

If you see this message, you need to confirm that you did install the license. You may need to set the **LM_LICENSE_FILE** environment variable to the installation directory. (This variable is described in the next step.)

Step 3: Installing a Demo License

Before you can use TotalView, you must place the demo license into the **flexIm-**version directory. This license file, which is called **license.demo**, was attached to the email message confirming your download request. If your email system didn't retain this name, you must rename it after you save it to disk.

- 1 If you installed TotalView as the **root** user, become the **root** user again. If you used **sudo** to install TotalView, use **sudo** in the following step.
- **2** Copy the license file to the **flexIm**-version directory.
 - cp license.demo installdir/toolworks/flexlm-version
- **3** To test that TotalView can use the license file, type: installdir/toolworks/totalview.version/bin/totalview TotalView responds by displaying its Root window.

After you purchase TotalView, you will receive a permanent license.

Setting the License File Variable

If you do not want to install the **license.demo** file in the *installdir/***toolworks/flexIm-***version* directory, you must set your **LM_LICENSE_FILE** environment variable to the file's full pathname. For example:

```
setenv LM_LICENSE_FILE nonstandard-dir/license.demo
```

If a LM_LICENSE_FILE environment variable already exists, add the pathname for license.demo to this variable's declaration. Notice that the LM_LICENSE_FILE variable contains a colon-separated list of license file pathnames. For example:

```
setenv LM_LICENSE_FILE \
    nonstandard-dir/license.demo:${LM_LICENSE_FILE}
```

Step 4: Configuring Your Environment

Before you can begin using TotalView, you must add TotalView to your **PATH** variable. On some systems, you may need to mount the /proc directory.

Cray XT Installation

Install TotalView where it is visible from your Linux login nodes. Do not install TotalView on your compute nodes. TotalView communicates with these nodes using a library created Cray.

Installing

Installing on a Cray XT system requires that you run the **Install** script on the boot node (not the login node). First, log into the boot node as root, run **xtopview**, and then run **Install**. Here are the required steps:

- 1 From the boot node as root, copy the TotalView software archive
 cray-xt-totalview-8.9.1-0-totalview-support-1.1.2-0.tar
 to
 /rr/current/software/
- 2 From the boot node as root, run xtopview -m "Installing TotalView"
- **3** In the **xtopview** session, enter the following:

```
cd /software
tar -xvf cray-xt-totalview-8.9.1-0-totalview-support-1.1.2-0.tar
./Install
```

- 4 Install the license (see Step 3: Installing a Demo License).
- 5 Exit xtopview

About the Install

When you install TotalView on a Cray XT CNL system, the Install script begins by unbundling the tar file. It then invokes the rpm files contained within it. In contrast to the standard TotalView installation, the Cray installation doesn't ask where it should install TotalView as it knows where to install files

The **Install** script also places the Cray bulk launching system and other support modules within the installation directory.

TotalView on Cray XT systems uses **totalview-support** product components to provide essential interface components that allow TotalView to execute in Cray environments. Included within **totalview-support** are the **totalview-support** module, a configuration file, and a set of bulk launcher executables.

The bulk launcher is a paired set of executables that use ALPS to scalably launch the TotalView Debugger Server (tvdsvr) executable on compute nodes.

If you are running your program on an XT3 Catamount system

- The tvdsvr process is called tvdsvr rs.
- In many cases, you will need to use the -nodes_allowed server command-line option to tvdsvr_rs.
- Your environment must set the RS DBG CLIENTS PER SERVER variable.

Installing or Changing a Regular License

This chapter describes the procedure for installing or changing a regular license.

- To install TotalView software for the first time with a permanent license, begin with the next section.
- To create a FLEXIm user account, see "Creating a FLEXIm User Account" on page 9.
- To install TotalView software and use an existing license, see "Accessing a License Server" on page 9.
- To shutdown and restart the license manager, see "Starting the License Manager Manually" on page 10.

If you are installing TotalView Individual, the information you need is Chapter 4, "Installing TotalView Individual".

2

Planning for a Regular License

TotalView uses the FLEXIm® license management software to grant or reject requests to use TotalView.



You do *not* need to install FLEX*lm* if you are using an evaluation license. That is, you only need the information in this chapter after you purchase TotalView and have received your regular license.

Your regular license is associated with a FLEXIm license manager host (the license server) and is for a specific number of concurrent licenses or tokens, depending upon the version you purchased.

Rogue Wave provides tools and HTML documentation for using FLEXIm.

Choosing a License Server

You will need to install the FLEXIm license server the first time you install a regular license. In most cases, the license manager and TotalView reside on the same system. However, you can install them on different systems.

The license manager should reside on a machine that is reliable, always running, and a permanent part of your local network. And, most importantly, it is accessible. For example, do not place it on the other side of your firewall.



If you already have a FLEXIm license manager in your network, you should not include your TotalView license with the other licenses managed by that license manager. If you must combine license managers, consult the FLEXIm documentation.

The TCP/IP port number used for the Rogue Wave license manager daemon must be unique and not used elsewhere. You can find port numbers that other FLEXIm license managers use in their license files.

Finding a License Server Host ID

When you install TotalView, the installer placed the files for the FLEXIm license manager in installdir/tooworks/flexIm-version.

To obtain host information, run the **toolworks_hostid** script, as follows:

```
installdir/flexlm-version/bin/toolworks_hostid
```

Do not use the UNIX hostid command.

This script writes the host name and the FLEXIm host ID value to standard output; for example:

```
The host name for this machine is: fast-server
The host ID for this machine is: 08122b2cf32d
```

After sending us this information and completing your order we'll send you a permanent license key.

Creating a FLEXIM User Account

While you can run the FLEXIm license manager as **root**, you should run it as a unique non-privileged (that is, non-**root**) user. Do this by creating a user account reserved for FLEXIm's use. You many need to refer to your operating system's documentation or your site's operating procedures for information on creating this account. The user name does not have to be **flexim**. Any unique name will do.

The account from which the license manager is run must have the following properties:

- The password is set to '*' because interactive access is not required.
- There is a unique user ID.
- There is a unique group ID.
- The login shell is /bin/sh.

Installing your Permanent License

This procedure is described in Chapter 3, "Installing License Keys," on page 15.

Accessing a License Server

When you start TotalView, it must be able to find the license.dat file in the flexImversion directory. If TotalView and the active license manager are installed on the same host and you place the license.dat file in its default location, you can skip to the next section, Starting the License Manager Manually.

If you are installing TotalView and the license server on different machines, you will must place a **license.dat** file within each installation. Do this by copying the **license.client** file from the license server to **flexIm-**version/**license.dat** in each installation. If you are using an existing license server, this is all that you have to do.

The format for the license.client file is:

SERVER host-name host-id port-number USE_SERVER

For example:

SERVER fast-server 08122b2cf32d 7127 USE SERVER

FLEXIm ignores all lines after USE SERVER.

Starting the License Manager Manually

You can start or stop the license manager by using the **toolworks_init** script. (This script is created by the **Configure_License** script when you install the license.) If, for example, the license manager software is installed in /usr/local/toolworks, the following commands start the license manager. Before entering these commands, use the **su** shell command to become the **root** user.



In some environments, you'll need to use the sudo command. If you use this command, you'll type something like sudo ./toolworks_init start. Also, before you run this program, make sure that you have write permission to this directory.

```
cd /usr/local/toolworks/flexlm-Wersion/bin
./toolworks_init start
```

Although the start-up script should be run as super-user (**root**), the license manager is started using the FLEX*lm* user ID.

Check that the license manager started. Do this by examining the following file:

/usr/local/toolworks/flexlm-version/license.log

Stopping the License Manager

The way you stop the license manager is very similar to the way you started it. If the license manager software resides in /usr/local/toolworks, the following commands stop the license manager. (Before entering these commands, use the su shell command to become the root user or use the sudo command to directly invoke the following program.)

```
cd /usr/local/toolworks/flexlm-Version/bin
./toolworks_init stop
```

Testing the License Manager

To verify that you installed the license manager correctly, you should manually start the license manager and then run TotalView —don't do this as **root**. After the license manager starts, set the license file variable and test the license installation by typing:

installdir/toolworks/totalview/bin/totalview

TotalView should respond by displaying its Root window. If it isn't displayed, you should:

- Look at the flexlm-version/license.log log file. This file contains status and error messages from the lmgrd license server.
- Use the flexIm-version/platform/bin/Imstat command, which lists license manager activity. For example, to list the number of licenses that are currently checked out on a sun5 platform, type:

```
cd /usr/local/toolworks/flexlm-Version/sun5/bin
   ./lmstat -a -c ../../license.dat
```

Starting the License Manager When the System Boots

Most of our customer want the license manager to automatically start when the license server boots. Do this by adding the **toolworks_init** command (see "Starting the License Manager Manually" on page 10) to the appropriate system start-up file. (Ask your system manager where this should go.) On most systems, you should also automatically stop the license manager when the system shuts down to single-user mode.

You can edit your startup files by running the **Configure_Autostart** shell script, which must be run as **root**. For example, if the license manager software is in the / **usr/local/toolworks** directory, run **Configure_Autostart** using the following commands. (Before entering these commands, use the **su** shell command to become the root user or use the **sudo** command to directly invoke the following program.)

cd /usr/local/toolworks/flexlm-Version/bin
./Configure_Autostart

Configure_Autostart prompts you with some configuration questions and then makes its changes.

Choosing a Standalone FLEX_{Im} Version

Rogue Wave supplies a stand-alone version of the version FLEX*lm* license manager. The following table indicates the supported platforms and the **tar** file associated with each.

Distribution Name	FLEXIm license manager for
flexlm-version-darwin-power.tar	Apple Mac OS X running on Power
flexlm-version-darwin-x86.tar	Apple Mac OS X running on Intel
flexlm-version-hpux11-ia64.tar	HP HP-UX for IA-64
flexlm-version-linux-ia64.tar	HP Linux for Itanium, Red Hat IA-64 Linux 7.2 and 8.0
flexlm-version-linux-power.tar	IBM Power Linux
flexlm-version-linux-x86.tar	RedHat Linux
flexlm-version-linux-x86-64.tar	RedHat Linux
flexlm-version-power-darwin.tar	Apple Mac OS X
flexlm-version-RS6000.tar	IBM RS/6000
flexlm-version-solaris-x86.tar	Sun Solaris Opteron
flexlm-version-sun5.tar	Sun SPARC Solaris

Use the **tar** command to extract the files that you downloaded from our web site. For example:

tar xvf flexlm-version-platform.tar

Starting the Install Program

Here is the procedure for installing FLEXlm:

1 (Optional) Become the root user on the system where you will install TotalView: su root

We recommend that you become the root user when installing FLEXIm as this prevents users from modifying the software after you install it.

On some systems, you will use the **sudo** command. In this case, you would invoke the **Install** program in step 2 by typing **sudo** ./Install.

2 From the directory containing the unbundled files, start the **Install** program:

./Install



For information on using this command, type "./Install -help". If you use any of the options displayed by this command, the software is non-interactively installed.

- **3** The **Install** program asks you to accept the license terms for FLEX*lm*. You can respond **Yes** to accept, **No** to decline, or **?** to view the license terms. You must accept the license terms to continue the installation.
- **4** The **Install** program asks that you name an installation directory. If the directory you specify does not exist, the program requests a new location, effectively meaning the directory you specify must already exist. The **Install** program then creates a **toolworks** directory and places the **flexIm-***version* directory within it. Type a period "." if you want **Install** to place FLEX*Im* 10.8 in your current directory.
 - If you do not enter a name, the installation directory is either /usr/toolworks or /opt/toolworks—this is system dependent.
- **5** You are then asked which components you wish to install. You should answer *yes* to all questions.
- **6** If you became root to install FLEX*lm*, use the **exit** command.

More FLEXIm Information

These instructions provide only basic information on installing the FLEX*lm* license manager. For more information, see:

User Guide

An HTML version of the FLEX*lm* user manual is installed in **flexIm**-version/**doc/flexuser**.

Flexera Software Web Site

FLEXIm is a product of Flexera Software. The web site at support.flexerasoftware.com/main/Default.aspx contains additional information about FLEXIm as well as utilities that can help you manage your license server.

Choosing a Standalone FLEXIm Version

Installing License Keys

This chapter describes the procedure for installing or changing a regular license. The topics in this chapter are:

- "Step 1: Locating the FLEXIm License Server Directory" on page 16
- "Step 2: Deleting Older License Keys" on page 17
- "Step 3: Adding New License Keys" on page 18
- "Step 4: Starting and Stopping the License Server" on page 20
- "Step 5: Configuring TotalView to Use the License Server" on page 21
- "Reporting Problems with License Installation" on page 22

If you are installing TotalView Individual, the installer will install the license keys for you. You should go to Chapter 4, "Installing TotalView Individual," on page 23 for more information.

You must install the FLEXIm version license management software on the machine you have selected as your license server. FLEXIm is included in the TotalView distribution and was installed by the installation script.

Step I: Locating the FLEX/m License Server Directory

Locate the **flexIm-***version* directory that was installed in Step 1. This directory should be located in the directory *installdir*/**toolworks**.

The default values for *installdir* are /usr and /opt depending on your platform.

Set the **FLEXLM** environment variable to:

installdir/toolworks/flexlm-version

For example:

setenv FLEXLM /usr/toolworks/flexlm-version



The FLEXLM environment variable is only used during this installation process. The license management daemons do not use or need it.

Step 2: Deleting Older License Keys

If you received new licenses keys because you moved your server or traded in existing license keys, the older license keys are no longer valid and must be removed in order for you to be in compliance with the Rogue Wave Permanent License Agreement.

If you do not need to remove previous license keys, skip to "Step 3: Adding New License Keys" on page 18.

The host information and license key information for the license keys that you need to remove are included in the email we sent you. For each of these license keys, that email listed:

- The hostname of the license server.
- The **hostid** of the license server.
- The FLEXIm INCREMENT lines that contain the now invalid license key.

Here is how to remove an invalid license key:

1 Locate the machine that corresponds with the **hostid** for the invalid key. Since hostnames are dynamic, you can use the **\${FLEXLM}/bin/toolworks_hostid** script to validate the **hostid** of the license server.



The FLEXIm hostid is unique for each license server regardless of hostname and IP address changes.

- **2** Locate the *installdir*/toolworks/flexlm-version directory on the license server.
- **3** If necessary, become the root user.
- 4 Make a temporary backup of the existing **\${FLEXLM}/license.dat** file. For example:

```
cp ${FLEXLM}/license.dat ${FLEXLM}/license.dat.bak
```

- 5 Using a text editor, edit the \${FLEXLM}/license.dat file to delete the INCREMENT and comment lines—comment lines begin with ##—matching the key being removed. Save this file.
- 6 If other license keys still exist in the license.dat file, tell the license server to reread the license.dat and verify that these licenses still work. If they do, you can delete the license.dat.bak temporary backup file.

Use the following command to tell the license server to reread your **license.dat** file.

\${FLEXLM}/bin/toolworks_lmreread

If no license keys remain in the **license.dat** file, use the following command to stop the license server:

\${FLEXLM}/bin/toolworks_init stop

Step 3: Adding New License Keys

This step describes how to update and create the **license.dat** file that the license manager uses to allow access to TotalView.



If your license server is already serving one or more TotalView licenses (that is, the file \${FLEXLM}/license.dat already exists), go to "Revising Your license.dat File" on page 18.

Adding a New license.dat File

The Configure_License script, which is located in the \$\{FLEXLM\}/bin directory—creates the license.dat file and the toolworks_init script. Configure_License needs to read the license.src file. This file, which you will create, contains TotalView license keys.

Here is the procedure for creating this license.src file:

- 1 Change to the **flexIm**-version directory on the license server cd \${FLEXLM}
- **2** Copy and paste the new Rogue Wave license keys—this is the information that you received through email—into a file named **license.src** in the **flexIm-***version* directory.
 - The text in your **license.src** is derived from your host information, number of license keys, and license configurations.
- **3** Run the **\${FLEXLM}/bin/Configure_License** script on the license server. You must run this script while your current directory is **flexIm-**version. The script creates the following files:
 - \${FLEXLM}/license.dat
 - \${FLEXLM}/license.opt
 - \${FLEXLM}/license.client
 - \${FLEXLM}/license.log
 - \${FLEXLM}/bin/toolworks init

Proceed to "Step 4: Starting and Stopping the License Server" on page 20.

Revising Your license.dat File

If you are currently using TotalView, you need to revise your \${FLEXLM}/license.dat file. You do not need to create a new \${FLEXLM}/license.src file nor do you need to rerun the Configure_License script unless you have deleted or changed the location of the flexIm-version directory.

If the **\${FLEXLM}**/license.dat does not exist, you will need to follow the procedure described in Adding a New license.dat File at the beginning of this topic. Since Rogue Wave does not resupply all of your license keys when there is a license change, you will need to combine the license keys that you already have with the newly delivered keys.

Here is the procedure for revising your existing license.dat file:

1 Backup your existing \${FLEXLM}/license.dat file. For example,

cp \${FLEXLM}/license.dat \${FLEXLM}/license.dat.bak

- 2 Using a text editor, edit the \${FLEXLM}/license.dat file and append the new TotalView license keys delivered in this email message to the end of the \${FLEXLM}/license.dat file.
- **3** Tell the license server to reread your **license.dat** file:

\${FLEXLM}/bin/toolworks_lmreread

Step 4: Starting and Stopping the License Server

Run the following command as **root** to start the license server.

\${FLEXLM}/bin/toolworks_init start

As an alternative, you can run the commands within this section as an argument to the **sudo** command.

If you configured your license server to run as a non-privileged user, the initialization script ensures that the license management daemons are started and run under the non-privileged user even if you run the script as **root**.

To stop the license manager, become **root**, and then use the following command:

\${FLEXLM}/bin/toolworks_init stop

If you would like the license manager to automatically start when the system is booted, run the following script as **root**:

\${FLEXLM}/bin/Configure_Autostart

Step 5: Configuring TotalView to Use the License Server

TotalView must be able to find the **\${FLEXLM}/license.dat** file. If you are running TotalView and the license server in the installation directory on the same machine, you can skip this step.

If TotalView and the license manager are not running on the same machine, you will need to place a **\${FLEXLM}/license.dat** file on each additional installation. Copy the **\${FLEXLM}/license.client** file from the license server into the **flexIm-**version directory on each remote machine and rename that file to **license.dat**.

As an alternative, you can specify the full path to the **license.dat** file in your **LM_LICENSE_FILE** environment variable. A client-style **license.dat** has the following form:

SERVER hostname hostid port-number USE_SERVER

Reporting Problems with License Installation

If you have difficulties installing your license keys, please send email to tvsupport@roguewave.com. Please include the following:

- Your license.dat file.
- Your license.src file (if applicable).
- The license delivery email.
- The license.log file that was created when you attempted to start the license manager and TotalView.
- The text displayed in your window when you tried to start the license manager.
- The text displayed in you window when you tried to start TotalView.

Installing TotalView Individual

This chapter outlines the steps to install TotalView Individual. The installation is less complex than the installation of the full product, and is guided by an installation script.

Before you install TotalView Individual, you must obtain an *entitlement code*. An entitlement code is a string that we display in your browser and that we also send to you after you purchase the product.

In addition, you will need to go to our download area (http://www.roguewave.com/support/contact-support/request-an-update.aspx) and download the version for the platform for which you registered TotalView. TotalView Individual supports the following platforms:

- Apple Mac OS X on Intel
- Apple Mac OS X on Power (G5)
- Linux x86
- Linux x86-64
- Solaris-Opteron

The file you download is an executable shell file. For example:

sh darwin-x86.sh

We recommend that you install TotalView Individual running as root.

After entering this command, the installer displays a window. Just follow the instructions. One of the screens asks that you enter your entitlement code.



The installer attempts to contact the Rogue Wave website to validate the entitlement code. If your computer is not connected to the internet, the installer will not install TotalView Individual. During installation is the only time that an internet connection is required.

The installer sends your host ID to Rogue Wave, where we associate your entitlement code with this ID. In response, you are sent a license. After accepting the license, the installer installs TotalView Individual and a license manager.

TotalView Installation Guide



If you lose your entitlement code we will have it on file. You can contact your salesperson directly or sales@roguewave.com to request that we re-send your entitlement code to you.

Uninstalling TotalView

The Three-Step Removal Process

If you need to remove or uninstall TotalView, the procedure is very straight-forward:

1 If the license server is running, stop it. If the license manager software is installed in /usr/local/toolworks, the following commands stop the license manager. Before entering these commands, use may need to use the su shell command to become the root user or use the sudo command to directly invoke the following program.

```
cd /usr/toolworks/flexlm-Version/bin
./toolworks_init stop
```

2 Remove the installation directory. The default location is:

/usr/toolworks

If you have more than one version of TotalView, you can just remove what you don't want. If you are just removing a version, you do not need to stop the license manager.

3 The home directories of all TotalView users will have a .totalview subdirectory. Remove it.

If you're not interested in using TotalView after trying it, we'd really appreciate you sending email to tvsupport@roguewave.com and letting us know why.



The Three-Step Removal Process

Index

A	€	testing 3
accessing a remote license server 9	entitlement code 23	Install program, starting 12
adding new license keys 18 automatically starting license	environment variables FLEXLM 16	installation directory 2, 13
server 11		default 3
Server 11	LM_LICENSE_FILE 4 evaluation license 4	default directory 13
_	evaluation licerise 4	symbolic link to 3
В		installation tar file 2
bulk launcher, Cray 6	F	installation, Cray 6
	finding a license server host ID 8	installdir 3
C	FLEXIm	installing a demo license 4
changing license keys 15	host ID 8	installing common components 3
changing licenses 7	information about 8	installing license keys 15
checking if license manager is	license management software	installing licenses 7
started 10	8	installing new versions 2
choosing a license server 8	license manager, see also	installing the license server 8
common components, installing 3	license manager	<u> </u>
Configure_Autostart script 11, 20	license manager, stand-alone	L
Configure_License script 10, 18	12	license
configuring the license server 22	license server directory 16 user account 9	changing 7
configuring your environment 5	user ID 10	installing 7
Cray	FLEXLM environment variable 16	planning for 8
bulk launcher 6	flexlm-version directory 4	license file variable 4
bulk launching system 6	flexim-version/license.log log file	license keys
installation 6	10	adding 18
rpm files 6		changing 15
totalview-support product	н	deleting older 17
components 6 creating FLEXIm user account 9	host ID, finding a license server 8	email 17
creating reexim user account 9	host ID, finding a ficense server of host ID, sending 23	installing 15
D	nost ib, sending 25	removing invalid 17
D		license manager 3
debugger server, tvdsvr_rs 6		activity, listing 10
default installation directory 3	Install program 2, 2–3	limitations 8
deleting older license keys 17	-help command 2	starting manually 10
demo license	installation directory 2	stopping 10
installing 4	running 2	testing 10
	symbolic link creation 3	user account 9

license manager host 8	R
license manager not found error	reinstallations 3
message 3	remove invalid license keys 17
license manager, checking if	RS DBG CLIENTS PER SERVER
started 10	environment variable 6
license server 8	running install program 2
accessing 9	
automatically starting 11	S
choosing 8	sending host ID 23
configuring 22	software version 3
directory 16	stand-alone license manager 12
host ID 8	starting Install program 12
installing 8	starting license manager manually
starting 20	10
stopping 20	starting the license server 20
license.client file 9, 21	starting TotalView 3
license.dat file 9, 17, 21	stopping the license manager 10
revising 18	stopping the license server 20
license.demo evaluation license 4	sudo, using on Mac 2
license.demo pathname 4	symbolic link to installation
license.log log file. 10	directory 3
license.src file 18	,
creating 18	Т
list license manager activity 10	tar file 2
LM_LICENSE_FILE environment	tar file, unbundling 2
variable 3, 4, 21	TCP/IP port number 8
lmgrd license server 10 lmstat command 10	test installation 3
locating the license server 21	testing license manager 10
locating the license server 21	toolworks directory 3
	toolworks hostid script 8, 17
M	toolworks init script 10, 20
manually starting license manager	toolworks init start command 10
10	toolworks_init stop command 10,
mounting proc directory 5	25
	TotalView
N	listing the version 3
new versions, installing 2	starting 3
-nodes_allowed server command-	uncompressing 2
line option 6	untar'ing 2
	TotalView Individual 23
0	connecting to internet 23
obtaining an entitlement code 23	platforms supported 23
	totalview-support product
P	components, Cray 6
pathname for license.demo 4	tvdsvr_rs debugger server 6
proc directory	
mounting 5	U
programs	unbundling tar file 2
Configure Autostart 11	uncompressing download 2
Install 2	uninstalling TotalView 25
toolworks hostid 8	untar'ing download 2
toolworks init 10	user account for FLEXIm 9

28 Index